

Family Information Form-Template



Go toCBI &
Diagnostics
Page

Manufacturer:

Engine category:

Cert contact:

1. Model Year:	2012
2. Carry over:	
If yes, list the previous family:	
3. Process Code:	Blue Submission
Date EPA Fee Paid:	1/30/2012
4. EPA Standard Engine Family:	CNVXH07570GE
5. Mfr's Family Name:	MaxxForce 13
6. Engine Cycle:	Diesel
7. Displacement(s) (CID or Liters)	757 cid
8. Engine Configuration:	I-6

Use the following format:V-8 or I-6

9. Emission Control &
Aftertreatment:

<input checked="" type="checkbox"/> Electronic control	<input type="checkbox"/> Lean NOx
<input type="checkbox"/> Engine Modification	<input type="checkbox"/> SCR
<input type="checkbox"/> 3WCatalyst	<input checked="" type="checkbox"/> DOC
<input type="checkbox"/> Smoke puff limiter	<input type="checkbox"/> None
<input type="checkbox"/> Passive DPF	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Active DPF	
<input checked="" type="checkbox"/> EGR	
<input type="checkbox"/> NOx adsorber	

Check all that apply

If Other Describe:

10. Fuel Type:	Diesel
11. Fuel System Type:	Electronic Direct Injection
12. Method Of Aspiration:	Two Stage Turbo
Turbocharger Type	fixed turbo
Aftercooling	Air to Water

13 Useful Life Period:	10 yrs / 435,000 mi / 22,000hrs
14. Deterioration Factor Type	
A. Gaseous Exhaust:	Multiplicative
B. Smoke:	NA

15. Intended Service Class	HHDD
----------------------------	------

Applicable Regulations

<input type="radio"/> Part 89	} Nonroad CI
<input type="radio"/> Part 1039	
<input type="radio"/> Part 60 only certified to requirements of Part 1039	} Stationary only
<input type="radio"/> Part 60 only certified to requirements of Part 89	
<input type="radio"/> Part 60 and Part 1039	} Stationary-Nonroad CI
<input type="radio"/> Part 60 and Part 89	

19. Plant Contact:

EPA (b) (4) CBI

20. Plant Location:

EPA (b) (4) CBI

21. ABT Information:

Check all that apply

<input type="checkbox"/> In the split family program	<input type="checkbox"/> NMHC+NOx
<input type="checkbox"/> PM	<input type="checkbox"/> NA
<input type="checkbox"/> NOx	

22. Family Emission Limits:

PM	
NOx	0.2
NMHC + NOx	
Units:	g/bHp-hr

23. Nonroad Engine Equipment Types:

<input type="checkbox"/> Crane	<input type="checkbox"/> Dozer	<input type="checkbox"/> Generator Set
<input type="checkbox"/> Loaders	<input type="checkbox"/> Pump	<input type="checkbox"/> NA
<input type="checkbox"/> Tractor	<input type="checkbox"/> Compressor	<input type="checkbox"/> Other...

Note: New or modified fields for the 2007 MY on-hwy certification

Note: New or modified fields for stationary engines and new reg. parts 60/1039 are in

New change explanation

If CFF, Select which category:

FED

EPA (b) (4) C

CA

EPA (b) (4) C

TOTAL

EPA (b) (4) C

Start

EPA (b) (4) CBI

End

EPA (b) (4) CBI

☒

Fed

☐

Cal

☐

50 St

24. Auxiliary Emission Control Devices:

Reduces effectiveness of
emission control?

AECD

Sensed

PARAMETER

Controlled

VMT

TONS/ENGINE

** See written submission

☐ Yes

☐ Yes

☐ Yes

☐ Yes

☐ Yes

☐ Yes

☐ Yes

☐ Yes

☐ Yes

☐ Yes

Examples of AECDs:

Engine Starting

Warm up

White Smoke

Extended Idle

Condensation

Acceleration

Altitude

Air Handling

Over heat

PTO

Regen Strategies

25. Adjustable Parameters:

Parameter

Adjustable Range (or N/a)

Tamper Resistance Method (or N/a)

Idle Speed

600-750 rpm

N/A

--	--	--

26. OBD

OBD Approval date:

OBD Approval Method:

Examples: letter from EPA , verbal from EPA, E.O. covers it

27. Maintenance Interval

Alternate Maintenance Int.? ☐ Yes

If yes, describe

28. Is this engine family using the Delegated Assembly flexibility described in 85.1713? ☒ Yes ☐ No

If yes, attach plan in a container field on technical description page

29. Comments:

Note: If the comment text box is too big you can adjust the box by going to View Layout Mode you can move the box around by grabbing the corner of the box . to the Browse Mode for data entry. Be easily be done in the Layout Mode.

EPA (b) (4) CBI

[Item 16] of the [Supplemental Test] tab does not include modal data since the ramped-modal cycle (RMC) version of the USSET was utilized.

Navistar is electing not to establish an adjustment factor on the RMC test cycle and will accept the impact of emissions during these tests.

** Written submission contains AECD information and is CBI indefinitely.

EPA (b) (4) CBI



Test Information Form

Manufacturer: **Navistar Inc**
Engine category: **On-highway HDDE**
Cert contact: **Julia Winter**

1. EPA Standard Engine Family: **CNVXH07570GE**
2. Process Code: **New Submission**
3. Test Data Set: **1**
4. Engine Code: **A475**
5. Engine Model: **A475**
6. Displacement(s)
(cid Or Liters): **757cid**
7. Engine I.d. Number: **SN 4126653**
8. Rated **HP** @ **475** @
Rated **RPM**: **1700**
9. Torque (**ft-lb**) @ **1700** @
Engine **RPM**: **1000**
10. WAIVERS: **CO** **PM** **Smoke** **Idle Co**
NA **NA** **NA** **NA**
11. Cold Start? **No**
12. Certification Fuel: **Diesel(Part 86.1313-2007(b)-(2)TableN07-2**
13. Special Test Device **No**
14 Test Procedure: **On-Hwy Diesel**

15. Crankcase emissions (CCEs)

- ☐ CCEs routed into the air inlet system
☒ CCEs routed into the exhaust upstream of aftertreatment
☐ CCEs measured separately from exhaust emissions.

If the CCEs are measured separately list them in the tech. description (item 13) and account for them in the test results listed below.

16. Official Test Results Date: **5/18/2012**

HC/OMHCE
NMHC/OMNMHCE
HC + NOx
CARBON MONOXIDE
OXIDE OF NITROGEN
PARTICULATE
FORMALDEHYDE
ACCELERATION (%opacity)
LUGGING (Gen) (%opacity)
PEAK (%opacity)
IDLE CO %
CO2

Test 1	Test 2	Test 3
0.04		
2.01		
0.20		
0.002		
616		

DFs

3.474
1.000
1.000
6.167

NOx Adsorber, etc

DPF

Strategy

17. Adjustment Factors

	EFL	EFH	UAF	DAF
HC/OMHCE	0.036	0.040	0.000	-0.004
CARBON MONOXIDE	2.007	4.597	0.057	-2.533
OXIDE OF NITROGEN	0.197	0.483	0.006	-0.279
PARTICULATE	0.002	0.005	0.000	-0.003

Frequency
Factor

.074

EFL	EFH	UAF	DAF

Frequency
Factor

18. Certification Levels
(Rounded Test Results)

HC/OMHCE
NMHC/OMNMHCE
NMHC + NOx
CARBON MONOXIDE
OXIDE OF NITROGEN
PARTICULATE
FORMALDEHYDE
ACCELERATION (%opacity)
LUGGING (Gen) (%opacity)
PEAK (%opacity)
IDLE CO%

Units--

g/bHp-hr

--Units

0.12		
2.06		
0.20		
0.01		

STDs
g/BHP-hr g/kW-hr

FELs

0.2

Supplemental Test Information Form

Manufacturer: **Navistar Inc**
Engine category: **On-highway HDDE**

1. EPA Engine Family:
2. Process Code:
3. Test Data Set:
4. Engine Code:
5. Engine Model:
6. Displacement(s)
(cid Or Liters):
7. Engine I.d. Number:
8. Rated HP @
Rated RPM:

CNVXH07570GE

New Submission

1

A475

A475

757CID

SN 4126653

475

1700

9. Torque (ft-lb) @
Engine RPM:
10. WAIVERS:
11. Cold Start?
12. Certification Fuel:
13. Special Test Device
14. Test Procedure:

1700

1000

CO
NA

PM
NA

Smoke
Yes

No

Diesel(Part 86.1313-2007(b)-(2)TableN07-2

No

Supplemental Euro III

15. Supplemental Euro III Test Information

Test Date:
N_{lo} Speed:
N_{hi} Speed:

5/19/2012

1254

1981

A Speed:
B Speed:
C Speed:

1436

1617

1799

(RPM)

(RPM)

(RPM)

A Speed Max Torque:
B Speed Max Torque:
C Speed Max Torque:

1610

2050

1704

(ft-lbs)

(ft-lbs)

(ft-lbs)

Mystery Points
% Speed
% Load

16. Supplemental Euro III Modal Results (g/bhp-hr):

	ESC Test Point													Myst 1	Myst 2	Myst 3
	1	2	3	4	5	6	7	8	9	10	11	12	13			
HC/OMHCE																
NMHC/OMNMHCE																
HC + NOx																
CO																
NOx																
Formaldehyde																
RPM																
Torque (ft - lbs)																

17. Adjustment Factors

DPF

NOx Adsorber, etc

Strategy

EFL

EFH

UAF

DAF

EFL

EFH

UAF

DAF

HC/OMHCE
CARBON MONOXIDE
OXIDE OF NITROGEN
PARTICULATE

0.003	0.000	0.000	0.003
0.040	0.000	0.000	0.040
0.159	0.000	0.000	0.016
0.001	0.000	0.000	0.001

Frequency
Factor

0.0

Frequency
Factor

18. **Weighted Composite Results (g/bhp-hr):**

HC/OMHCE	
NMHC/OMNMHCE	0.00
HC + NOx	
CO	0.04
NOx	0.16
Formaldehyde	
PM (Composite only)	0.001

X

19. **Deterioration Factors:**

	3.474
	1.000
	1.000
	6.167
DF Type:	Multiplicative

=

20. **Certification Levels (g/bhp-hr):**

0.01	
0.04	
0.16	
0.01	
	Limits

Same DFs as test page

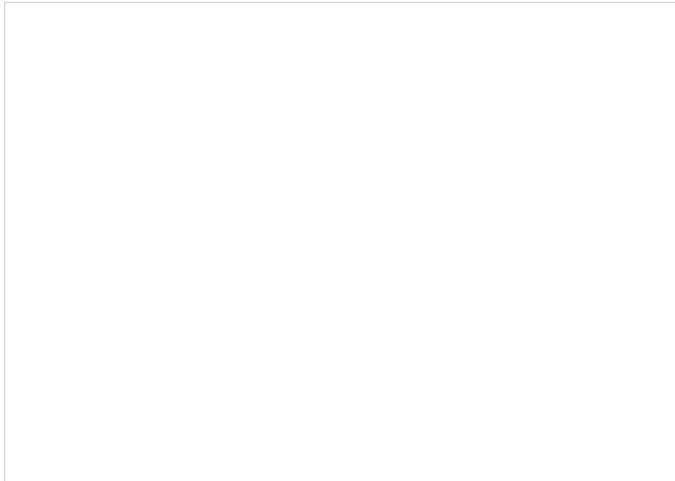
21. **Transient Load Response Limit Results (g/bhp-hr):**

	HC	NOx	PM	Beginning Load (ft-lbs)	Sample Interval Length
Lowest NTE Speed					
15% ESC Speed					
25% ESC Speed					
50% ESC Speed					
75% ESC Speed					
100% ESC Speed					

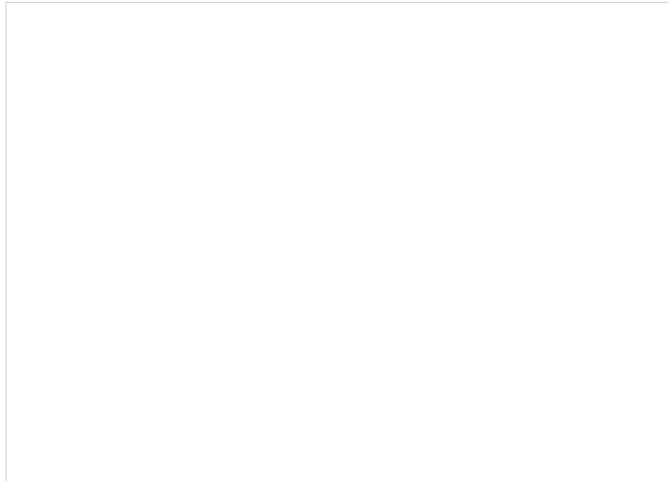
Technical Description Form 1

Manufacturer: **Navistar Inc**
Engine category: **On-highway HDDE**
EPA Engine Family: **CNVXH07570GE**
Mfr Family Name: **MAXXFORCE 13**
Process Code: **New Submission**

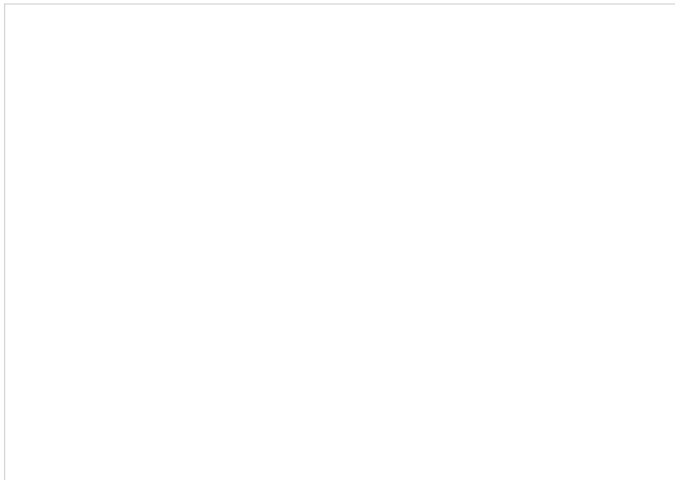
1. Diagrams/ Drawings/Schematics:



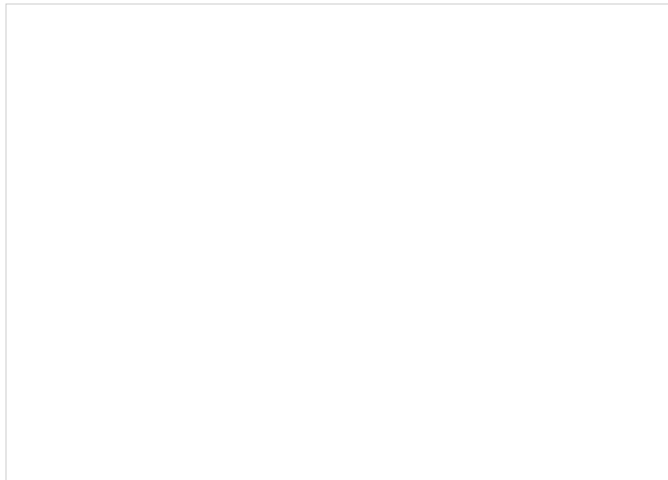
2. Diagrams/ Drawings/Schematics:



3. Diagrams/ Drawings/Schematics:



4. Diagrams/ Drawings/Schematics:



5. Diagrams/ Drawings/Schematics:

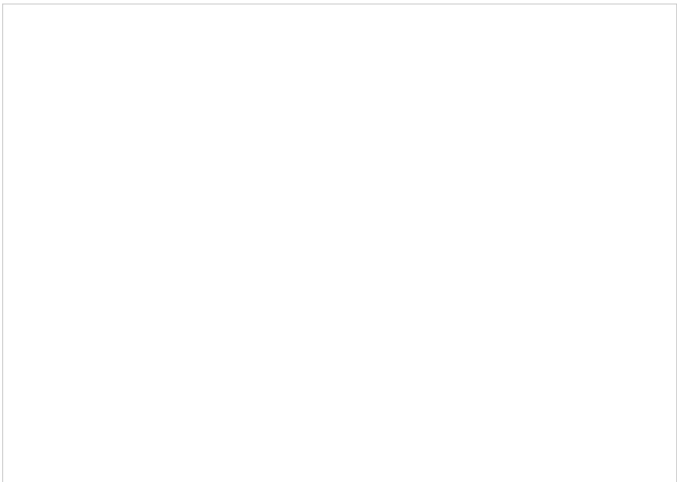


6. Diagrams/ Drawings/Schematics:

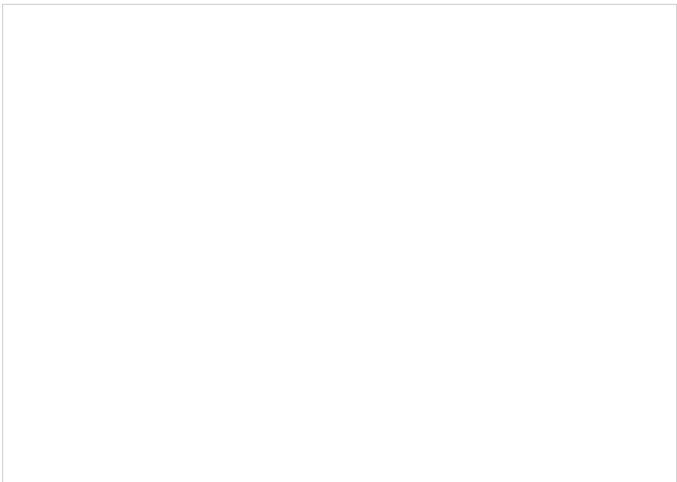




7. Diagrams/ Drawings/Schematics:



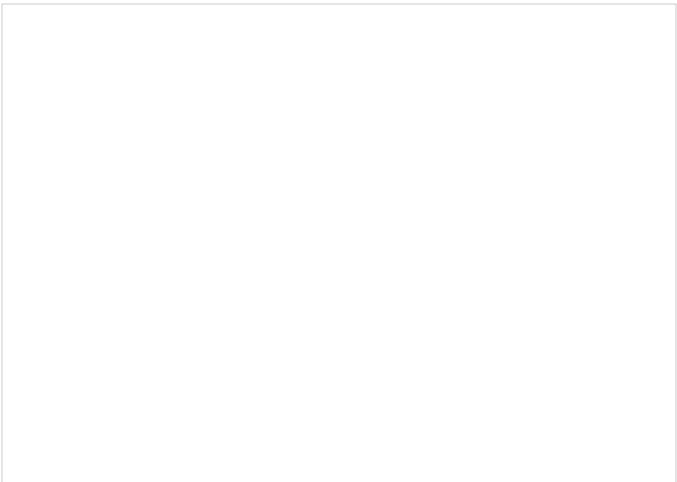
9. Diagrams/ Drawings/Schematics:



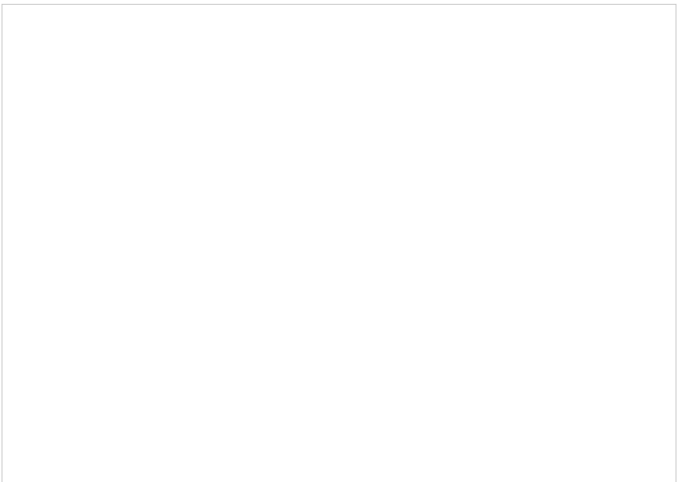
11. Diagrams/ Drawings/Schematics:



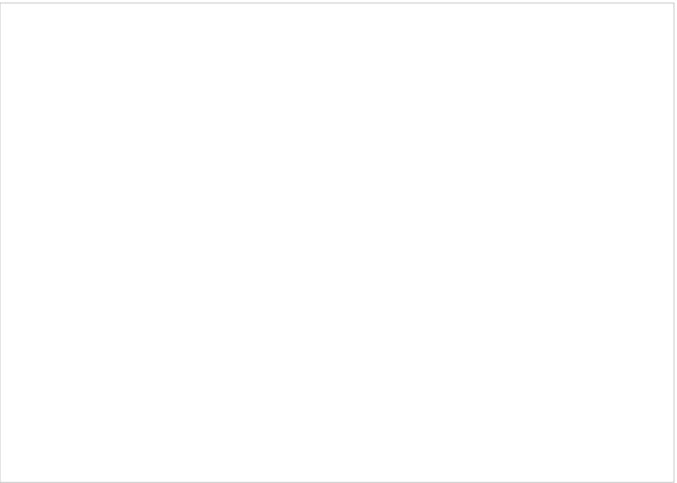
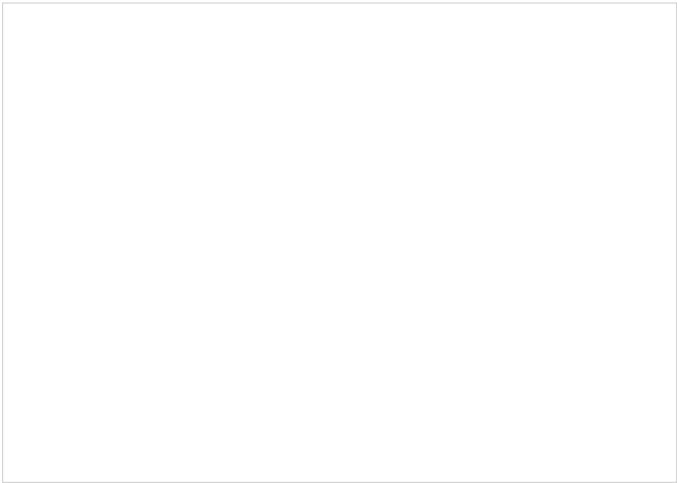
8. Diagrams/ Drawings/Schematics:



10. Diagrams/ Drawings/Schematics:



12. Diagrams/ Drawings/Schematics:



13. Crankcase emission measured separately

	Test 1	Test 2	Test 3
HC/OMHCE			
NMHC/OMNMHCE			
HC + NOx			
CARBON MONOXIDE			
OXIDE OF NITROGEN			
PARTICULATE			
FORMALDEHYDE			
ACCELERATION (%opacity)			
LUGGING (Gen) (%opacity)			
PEAK (%opacity)			
IDLE CO %			

CO2

--	--	--

Technical Description Form 2

Manufacturer: **Navistar Inc**
Engine category: **On-highway HDDE**
EPA Engine Family: **CNVXH07570GE**
Mfr Family Name: **MAXXFORCE 13**
Process Code: **New Submission**

14. Technical Description:

Delegated Assembly Plan pursuant to 40 CFR 85.1713

Navistar will :

1. Provide installation instructions to ensure that the engine will be in its certified configuration when assembly is complete.
2. Enter into contracts with vehicle manufacturers that state the vehicle manufacturer must complete the final assembly of the engine so it is in its certified configuration in the vehicle.
3. Obtain annual affidavits from the vehicle manufacturers, dealers, and distributors that state the engines were put into a certified configuration upon final assembly. These affidavits will include the part numbers of the aftertreatment devices installed with each engine purchased from Navistar.
4. Navistar will utilize the exemption under this provision to sell engines to vehicle manufacturers including those for fire trucks, dock spotters, and other various applications. Navistar will require signed contracts by vehicle manufacturers to ensure the proper aftertreatment devices were installed to put the final engine assembly in a certified configuration and to supply Navistar with annual affidavits.
5. Navistar will retain records to document how many engines were produced under this exemption. Contractual agreements will also be kept. Both documents will be held for a minimum of five years and supplied to the agency upon request.
6. All engines will contain the proper emission label per the standard-setting part.
7. If the price of the aftertreatment is not included in the price of the engine, in addition to numbers 1 through 6 above, Navistar will perform audits per 40 CFR 85.1713 (c)(3). Furthermore, Navistar will not ship an engine until written confirmation from the vehicle manufacturer that the appropriate aftertreatment components have been received.
8. Navistar will devise a plan to audit each vehicle manufacturer on average once every four years. These audits will include facilities, procedures, and production records of the vehicle manufacturer. Included in this investigation will be the examination of assembled engines to confirm a certified configuration and the review of records to confirm the number of aftertreatment components shipped were adequate for the number of engines supplied.

Note: If the technical description text box is too small, you can adjust the box by going to View > Layout Mode you can move the box to the desired size by grabbing the corner of the box. To return to the Browse Mode for data entry, click the View > Browse Mode button. This can easily be done in the Layout Mode.

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
CNVXH07570GE	A475	A475	475@1700	297.6	169.5	1700@1000	313.4	105	DI, ECM, TC
									CAC, EGR, OC
									PTOX

Part Number Summary Template

Engine Family	Engine G-Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	<u>Sensor Assemblies</u>	
									Description	Part Number
CNVXH07570GE	TBD	A475	3005275C1	3005783C92	3005699C92	3007009C2	DPF+DOC		Cam Shaft	62271207038
CNVXH07570GE					3005700C93		3860631C92		Fuel Rail psi	3005793C1
CNVXH07570GE							PREDOC		Oil Temp	62274210190
CNVXH07570GE							3006598C1		Coolant Temp	62274210190
CNVXH07570GE									Manifold Temp	62274210165
CNVXH07570GE									Ambient Air Temp	3561562C1

Part Number Summary Template

Engine Family	Engine G-Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor Assemblies	
									Description	Part Number
CNVXH07570GE									Doser Fuel psi	3006082C1
									DPF Delta psi	3626432C1
									Lambda	3006233C1
CNVXH07570GE									Boost psi,	1846481C92
									Crank Shaft	62271207038
CNVXH07570GE										
									Exhaust Gas Temp	3006419C1 3006420C1 3006421C1

Part Number Summary Template

Engine Family	Engine	Engine	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	<u>Sensor Assemblies</u>						
	G-Code	Model							Description	Part Number					
CNVXH07570GE									Humidity	3006679C91					
									Exhaust pressure	3005844C3					

Part Number Summary Template

Engine Family	Engine G-Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	<u>Sensor Assemblies</u>	
									Description	Part Number

Part Number Summary Template 2

Miscellaneous Part Names and Numbers

[illegible]

Part Number Summary Template 2

Miscellaneous Part Names and Numbers

[illegible]


Part Number Summary Template 3

Engine Family	Engine Code	Engine Model	Miscellaneous Part Names and Numbers							
			Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										

Statement of Compliance

On-highway HDDE

EPA (b) (4) CBI

A large rectangular area of the document is redacted with a solid grey box.

May 21, 2012

Certification Team Leader
Engine Compliance Programs Group
U.S. Environmental Protection Agency
Mail Code: 6405-J
Washington, DC 20460

Dear Certification Team Leader:

Please find enclosed the model year 2012 application for engine family CNVXH07570GE. On behalf of Navistar, Inc., I hereby certify that the test engines, as described in this application for certification, has been tested in accordance with the applicable test procedures, utilizing the fuels and equipment required under Subparts D, I and N of 40 CFR Part 86, and that on the basis of such tests, the engine conforms to the requirements of 40 CFR Part 86, applicable guidance documents, and based on information in its possession at the time of certification, Navistar, Inc. affirms these engines will meet the NTE screening limits, as those limits are modified by relevant NTE exclusions and deficiency provisions, under all conditions which can reasonably be expected to be encountered in normal vehicle operation and use.


I further certify that all engines in these engine families are in all material respects as described in this Application for Certification and comply with all requirements of 40 CFR Part 86 and the Clean Air Act.

[CBI]

I hereby assert that certain information in this application is confidential business information. The information which we assert to be confidential business information has been marked as such in the Application for Certification.

Sincerely,

EPA (b) (4) CBI

A grey rectangular redaction box covering the signature and name of the sender.

Navistar. Inc.

Manufacturer: **Navistar Inc**
Engine category: **On-highway HDDE**
EPA Engine Family: **CNVXH07570GE**
Mfr Family Name: **MAXXFORCE 13**
Process Code: **New Submission**

Address Form

Each field on this form must be filled in.

<div>EPA (b) (4) CE</div>	<div>EPA</div>	<div>EPA (b) (4) CBI</div>
FIRST NAME	INITIAL	LAST NAME
<div>EPA (b) (4) CBI</div>	<div>EPA (b) (4) CBI</div>	
TITLE	DIVISION	
<div>Navistar, Inc</div>		
COMPANY NAME		PO BOX
<div>EPA (b) (4) CBI</div>		
ADDRESS		
<div>EPA (b) (4) CE</div>	<div>EPA</div>	<div>EPA (b) (4) CE</div>
CITY	STATE	COUNTRY
<div>EPA (b) (4) CBI</div>	<div>EPA (b) (6) Personal Info</div>	
ZIP	E-MAIL	BEEPER (OPTIONAL)
<div>EPA (b) (6) Personal Info</div>		
PHONE		FAX

--

GENERAL COMMENTS